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RD Hornung - 1997 - [osti.gov](#)

... uniform **geometry** and regular connectivity, as illustrated in ... The research into **adaptive mesh refinement** simulation ... a form of spatial **mesh** refinement directly ...

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N Krause, RW Mendicino, K Shimada, L Weiss, T ... - US Patent App. 10/636,052, 2003 - Google Patents

... Free-Form \*~ Deformation Parameters With **Adaptive** Model^Refinement ... representing a standard parametric **geometry** and topology ... The **template** polygonal **mesh** is then ...

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L Baduel, F Baude, D Caromet, C Delbe, N Gama, SE ... - Parallel and Distributed Processing Symposium, 2004,

..., 2004 - [ieeexplore.ieee.org](#)

... In particular, it can use curvilinear grids, **adaptive mesh** refinement, and the composite ... (vertices and element connectivity) Tetrahedral **mesh** ... **Geometry** ...

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[Time Critical Isosurface Refinement and Smoothing](#)

CL Bajaj, V Pascucci - IEEE Symposium on Volume Visualization, 2000. VV 2000, 2000 - [ieeexplore.ieee.org](#)

... pendently of the intrinsic/embedding dimension of the **geometric** object ... **Mesh** Refinement ... have been designed in the meshing community for the **adaptive** refinement of ...

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M Chen, C Correa, S Islam, MW Jones, PY Shen, D ... - Computer Graphics Forum, 2007 - [cs.swan.ac.uk](#)

... a constructive **model** (eg, parameters of a **primitive** function in ... are more than hundreds of **geometric** elements in ... to associate a deformable polygonal **mesh** with a ...

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AF Frangi, WJ Niessen, MA Viergever - IEEE Transactions on Medical Imaging, 2001 - [techn.upf.es](#)

... planning of surgical interventions, and for **mesh** generation for ... IEEE TRANSACTIONS ON MEDICAL IMAGING, VOL ... LV while keeping the intrinsic **geometrical** meaning of ...

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... Each segment is a **geometric primitive** connected by joints which have ... principle of the neural network allows **adaptive** error mini ... MESH ANIMATED MESH FINAL MESH Fig ...

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I Guskov, A Khodakovsky, P Schröder, W Sweldens - Proceedings of the eighteenth annual symposium on ..., 2002 - [eecs.umich.edu](#)

... operations (these typically happen near important **geometric** or topological ... until we reach the final **adaptive** remesh M ... be generated for this sub- **mesh**, with the ...

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### Automated measurement of objects using deformable models

M Kaus, J Weese, S Lobregt - US Patent App. 10/521,254, 2003 - Google Patents

... "Shape constrained deform- able **models** for 3D medical image ... sub-parts (eg surface elements of a **mesh** such as ... primitives (eg a **sphere** to the **femur** head) to ...

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### VRML visualization in a surgery planning and diagnostics application

H Holten-Lund, M Hvilstedt, J Madsen, S Pedersen - Proceedings of the fifth symposium on Virtual reality ..., 2000 - portal.acm.org

... Rotor.set\_fraction ROUTE Rotor.value\_changed TO **Femur.set\_rotation** ... The 3D graphics renderer used by the VRML ... The renderer uses a **mesh** representation where the ...

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R Cuypers, Z Tang, W Luther, J Paull - Proceedings of the Fourth IASTED International Conference - actapress.com

... method was applied to a 3D point set ... **model** was used to extract certain significant **femur** features from ... de- termined by the above-mentioned **mesh-model** fitting ap ...

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### Rapid prototyping applications in medicine. Part 2: STL file generation and case studies

D Ma, F Lin, CK Chua - The International Journal of Advanced Manufacturing ..., 2001 - Springer

... gener- ated through the triangular **mesh** construction process ... **model** is obtained from 3D reconstruction of ... An upper **femur model** derived from reconstructed NURBS ...

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### Skeleton-based modeling operations on solids

DW Storti, GM Turkiiyah, MA Ganter, CT Lim, DM ... - Proceedings of the fourth ACM symposium on Solid modeling ..., 1997 - portal.acm.org

... resentation of 3D shapes may be described in three steps ... of detail while still showing the gross shape of the **femur**. ... 3 Hexahedral Finite Element **Mesh** Generation ...

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BJ Fregly - Citeseer

... base SIMM bone files that represent the 3D bone and muscle surfaces as polygon **meshes** ... anatomical landmarks used for establishing the **femur** reference frame ...

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### Implicit reconstruction of solids from cloud point sets

CT Lim, GM Turkiiyah, MA Ganter, DW Storti - Proceedings of the third ACM symposium on Solid modeling and ..., 1995 - portal.acm.org

... of several sample data sets, including a molar and a **femur**. ... exist for manipulating polygonal **meshes** in real-time ... a scheme for the reconstruction of 3D data from ...

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AP Mangan, RT Whitaker - IEEE Transactions on Visualization and Computer Graphics, 1999 - scilib.kiev.ua  
... data with the goal of constructing CAD **models**. ... and matching of any type of underlying  
**geometric primitive**. ... For 3D **mesh** segmentation, we have chosen the latter ...

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Recent advances in compression of 3D meshes- ► inria.fr [PDF]

P Alliez, C Gotsman - Advances in Multiresolution for Geometric Modelling, 2005 - Springer  
... Techniques which remesh the **model** before compression. ... Recent Advances in Compression  
of 3D Meshes 5 ... why much of the work in the area of **mesh** compression prior ...

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A texture-mapping approach for the compression of colored 3D triangulations

M Soucy, G Godin, M Rioux - The Visual Computer, 1996 - Springer  
... to be applied onto the compact triangulated **mesh**. ... texture filtering, independently  
of the 3D shape compression ... order to define a usable texture- mapped **model**. ...

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Deformable models with parameter functions: application to heart-wall modeling- ► upenn.edu [PDF]

J Park, D Metaxas, A Young - 1994 IEEE Computer Society Conference on Computer Vision and ..., 1994 -  
ieeexplore.ieee.org  
... 5] developed a spring-mass, adaptive-size **mesh model**, Cohen and ... of points on the  
**model** relative to the **model** frame ... e can represent either a set of 3D points in ...  
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Deformable m-reps for 3d medical image segmentation- ► unc.edu [PDF]

SM Pizer, PT Fletcher, S Joshi, A Thall, JZ Chen, ... - International Journal of Computer Vision, 2003 - Springer  
... a multiscale medial means for modeling and rendering 3D solid geometry ... medial atoms,  
which is interpolated from the **model** formed by a net, ie, a **mesh** or chain ...  
Cited by 147 - Related articles - Web Search - BL Direct - All 12 versions

[PDF] ► An efficient volumetric method for building closed triangular meshes from 3-d image and point data

G Roth, E Wibowo - Graphics Interface, 1997 - informatik.uni-bonn.de  
... A volumetric method for building complex **models** from range ... cubes: a high resolution  
3d surface reconstruction ... McDonald, and W. Stuetzle, **Mesh** optimization," in ...  
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Volumetric deformable models with parameter functions: A new approach to the 3D motion analysis of ...

J Park, D Metaxas, L Axel - Computer Vision, 1995. Proceedings., Fifth International ..., 1995 -  
ieeexplore.ieee.org  
... relative to an inertial frame of reference @ in 3D space are ... of points on the **model**  
relative to the **model** frame ... where e is a **geometric primitive**  $e(u; ao(u), \cdot^*(U \dots)$

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AP Mangan, RT Whitaker - IEEE Transactions on Visualization and Computer Graphics, 1999 - scilib.kiev.ua

**Partitioning 3D Surface Meshes** Using ... We call the problem of **partitioning a 3D surface** mesh into meaningful, connected pieces the **mesh** segmentation problem. ...[Cited by 266 - Related articles - View as HTML - Web Search - All 14 versions](#)[Spectral compression of mesh geometry- ► psu.edu \[PDF\]](#)

Z Kami, C Gotsman - Proceedings of the 27th annual conference on Computer ..., 2000 - portal.acm.org

... which better captures the geometry of the **mesh surface**. ... be neccesary to include this **partition** information as ... to perform lossy compression of **3D mesh** data is ...[Cited by 296 - Related articles - Web Search - All 24 versions](#)[Segmentation of 3D meshes through spectral clustering- ► sfu.ca \[PDF\]](#)

R Liu, H Zhang - Computer Graphics and Applications, 2004. PG 2004. ..., 2004 - ieeexplore.ieee.org

... of geodesic and angular distance over the **mesh surface**. ... use of graph min-cut to **partition** the fuzzy ... on applying spectral clustering to **3D mesh** segmen- tation ...[Cited by 65 - Related articles - Web Search - All 14 versions](#)[Bounded-distortion piecewise mesh parameterization- ► psu.edu \[PDF\]](#)

O Sorkine, D Cohen-Or, R Goldenthal, D Lischinski - IEEE Visualization, 2002. VIS 2002, 2002 - ieeexplore.ieee.org

... and Realism—Color, shading, shadowing and texture; Keywords: atlas, **mesh partitioning**, parameterization, **surface** flat- tening, texture mapping, **3D** painting ...[Cited by 107 - Related articles - Web Search - All 19 versions](#)[Intelligent mesh scissoring using 3d snakes- ► ajou.ac.kr \[PDF\]](#)

Y Lee, S Lee, A Shamir, D Cohen-Or, HP Seidel - Computer Graphics and Applications, 2004. PG 2004. ..., 2004 - ieeexplore.ieee.org

... **Mesh partitioning** and parts extraction have become key ingredients for ... around a specific part of the **mesh**, and this ... the initial position of a **3D** geometric snake ...[Cited by 41 - Related articles - Web Search - All 8 versions](#)[Hierarchical mesh decomposition using fuzzy clustering and cuts- ► idc.ac.il \[PDF\]](#)

S Katz, A Tal - ACM Transactions on Graphics (TOG), 2003 - portal.acm.org

... In **3D** shape re- trieval, a decomposition graph serves as ... distances to all pairs of faces in the **mesh**. ... For instance, we wish to **partition** the objects in Figure ...[Cited by 248 - Related articles - Web Search - BL Direct - All 13 versions](#)[\[PDF\] ► High-resolution random mesh algorithms for creating a probabilistic \*\*3D\*\* surface atlas of the human ...](#)

PM Thompson, C Schwartz, AW Toga - NeuroImage, 1996 - Citeseer

... brain, we modeled the major sulci in **3D** as deep ... were modeled using a multiresolution parametric **mesh** approach ... into the brain to form a natural **partition** of its ...[Cited by 146 - Related articles - Web Search - BL Direct - All 5 versions](#)[Texture mapping progressive meshes- ► stevens.edu \[PDF\]](#)

PV Sander, J Snyder, SJ Gortler, H Hoppe - Proceedings of the 26th annual conference on Computer ..., 2001 - portal.acm.org

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[Para-graph: graph-based parameterization of triangle meshes with arbitrary genus-](#) ► [cnr.it](#)

[PDF]

G Patane, M Spagnuolo, B Faloutsos - Computer Graphics Forum, 2004 - interscience.wiley.com

... it simply corresponds to the **part** of the ... factors which mainly differentiate this

**decomposition** from simplification ... with respect to the geometry of the **3D mesh** ...

Cited by 17 - Related articles - Web Search - All 4 versions

[PDF] ► Computing parametric geon descriptions of 3D multi-part objects

K Wu - 1996 - cim.mcgill.ca

... APPENDIX D. Part Decomposition : : : : : ... 1.1 Part-based description  
of a 3D object ... 6.15 Results of part segmentation ...

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[Domain connected graph: the skeleton of a closed 3D shape for animation-](#) ► [ntu.edu.tw](#) [PDF]

FC Wu, WC Ma, RH Liang, BY Chen, M Ouhyoung - The Visual Computer, 2006 - Springer

... 2.3 Decomposition-based method ... measure shape variation, in order to identify a meaningful **part**. ... procedure detects where the skeletal points of a **3D** model can ...

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[An evolving system for simulating clothes on virtual actors](#)

P Volino, NM Thalmann, S Jianhua, D Thalmann - IEEE Computer Graphics and Applications, 1996 - [ieeexplore.ieee.org](#)

... We achieved efficient computation by decomposing the body into ... **surface** to be input  
by either **3D** digitizing or ... Every **part** is composed of mass blocks, such as ...

Cited by 84 - Related articles - Web Search - BL Direct - All 7 versions

[PDF] ► The generation of hexahedral meshes for assembly geometry: survey and progress

TJ Tautges - Int. J. Numer. Meth. Engng, 2001 - Citeseer

... solution step, which is efficient in **part** because it ... a **surface mesh** is extruded into  
**3D** elements ... cent of the volumes resulting from geometry **decomposition**, and the ...

Cited by 20 - Related articles - View as HTML - Web Search - BL Direct - All 8 versions

[Feature based hex meshing methodology: feature recognition and volume decomposition-](#)

► [wisc.edu](#) [PDF]

Y Lu, R Gadh, TJ Tautges - Computer-Aided Design, 2001 - Elsevier

... In **3D**, the problem of **decomposition** and meshing becomes ... 9(a), the lower portion of  
the **part** can be ... a good quality **mesh**; however, this **decomposition** leaves an ...

Cited by 19 - Related articles - Web Search - BL Direct - All 5 versions

[Segmentation of 3D Objects Using Pulse-Coupled Oscillator Networks-](#) ► [uci.edu](#) [PDF]

E Ceccarelli, A Del Bimbo, P Pala - IEEE International Conference on Multimedia and Expo, 2005. ..., 2005 - [ieeexplore.ieee.org](#)

... into synchronized groups reflects a **decomposition** of the original **mesh** into  
homogeneous **parts**. ... objects, represented in the form of **3D meshes**; finally, in ...

Cited by 4 - Related articles - Web Search - All 4 versions

[PDF] ► Progressive iso-surface extraction from hierarchical 3d meshes

R Gross, T Ertl - Computer Graphics Forum, 1998 - vis.uni-stuttgart.de

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S Petitjean - ACM Computing Surveys, 2002 - portal.acm.org

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to ...

[Cited by 87 - Related articles - Web Search - BL Direct - All 11 versions](#)[Whole-body modelling of people from multiview images to populate virtual worlds](#)

A Hilton, D Beresford, T Gentilis, R Smith, W Sun, ... - The Visual Computer, 2000 - Springer

In this paper a new technique is introduced for automatically building recognisable, moving 3D models of individual people. A set of multiview colour images of a person is captured from the front, sides and back by one ...

[Cited by 47 - Related articles - Web Search - BL Direct](#)[\[PDF\] ► Partitioning range images using curvature and scale](#)

A Lejeune, FP Ferrie - IEEE COMPUTER SOCIETY CONFERENCE ON COMPUTER VISION AND ..., 1993 - eprints.kfupm.edu.sa

Abstract We present a method for partitioning a set of surface estimates obtained with a laser ranging system into subsets corresponding to parts of an object. Our strategy uses two complementary representations for ...

[Cited by 24 - Related articles - View as HTML - Web Search - Library Search - BL Direct - All 13 versions](#)[Part-based 3D descriptions of complex objects from a single image](#)

M Zermoug, R Nevatia - IEEE Transactions on Pattern Analysis and Machine ..., 1999 - ieeexplore.ieee.org

Abstract DVolumetric, 3D, part-based descriptions of complex objects in a scene can be highly beneficial for many tasks such as generic object recognition, navigation, and manipulation. However, it has been difficult to derive such ...

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A Hilton, T Gentilis - Proc. SIGGRAPH, 1998

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FG Callari, FP Ferrie - International Journal of Computer Vision, 2001 - Springer

Abstract This paper introduces an information-based methodology for view selection that actively exploits prior knowledge about the objects to be found in a scene. The methodology is used to implement an active recognition ...

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P Whaite, FP Ferrie - IEEE Transactions on Pattern Analysis and Machine ..., 1997 - ieeexplore.ieee.org

Abstract—Many strategies in computer vision assume the existence of general purpose models that can be used to characterize a scene or environment at various levels of abstraction. The usual assumptions are that a selected ...

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